**Geo/Alg2, Section 10.3 Apply Properties of Chords, p 664**

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3. 

4. 

5. 

6. 

7. 

8. 

9. 

10. 

11.  or 

12. Because  is a perpendicular bisector of , it is a diameter by Theorem 10.4

13. Because  is a diameter and it is perpendicular to , it bisects  and arc FG by Theorem 10.5

14. Because  and  are equidistant from the center,  by Theorem 15. D; 

16.  should equal  using Theorem 10.6.

17. You don’t know that  is perpendicular to  therefore you can’t show .

18. Diameter; use Theorem 10.4

19. Diameter; the two triangles are congruent by the SAS Congruence Postulate which makes  the perpendicular bisector of . Use Theorem 10.4.